

Maintaining Cisco Service Provider Routing Protocols (MSPRP) (642-775)

QUESTION 21

In a service provider environment, which two are the main purposes of BGP and IGP? (Choose two.)

- A. BGP is used to provide connectivity within an AS.
- B. BGP is used to exchange Internet routing information with other ISPs and those customers that require it.
- C. IGP is used to provide reachability for BGP neighbors and BGP next-hop addresses.
- D. IGP is used to exchange external routing information.

Answer: BC

QUESTION 22

In OSPF, which area type typically carries all the routing information?

- A. stubby area
- B. totally stubby area
- C. regular nonbackbone area
- D. backbone Area 0

Answer: D

QUESTION 23

Which LSA type carries routing information from one area into another area?

- A. type 3 summary LSA
- B. type 5 external LSA
- C. type 1 router LSA
- D. type 2 network LSA

Answer: A

QUESTION 24

How can a customer influence path selection for incoming traffic?

- A. by changing MED for routes that are sent to the ISP
- B. by changing local preference for routes that are sent to the ISP
- C. by prepending an AS number to routes sent to the ISP
- D. by changing the weight for routes that are sent to the ISP

Answer: C

QUESTION 25

Which MIB supports BGP on Cisco devices?

- A. CISCO-BGP4-MIB
- B. IETF-BGP4-MIB
- C. CISCO-ROUTE-MIB
- D. CISCO-IPBGP-MIB

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Answer: A

QUESTION 26

Which Cisco IOS Software feature should you enable to monitor IGP neighbor flaps?

- A. IP SLA
- B. adjacency change logging
- C. NetFlow
- D. route dampening
- E. control plane protection

Answer: B

QUESTION 27

Which route-map statement allows further processing of these route-map sections even after the map condition has been met?

- A. goto
- B. continue
- C. jump
- D. follow

Answer: B

QUESTION 28

Refer to the exhibit. Data that is destined for 1.1.1.17 is being dropped by this router, though it is in the BGP table. Why are these packets being dropped?

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```

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR

Gateway of last resort is not set

  4.0.0.0/24 is subnetted, 1 subnets
D    4.4.4.0 [90/409600] via 161.108.0.4, 00:49:24, Ethernet0/0
  5.0.0.0/24 is subnetted, 1 subnets
C    5.5.5.0 is directly connected, Loopback0
  162.108.0.0/16 is variably subnetted, 2 subnets, 2 masks
C    162.108.10.0/24 is directly connected, Serial1/0
C    162.108.4.0/22 is directly connected, Serial2/0
C    161.108.0.0/16 is directly connected, Ethernet0/0
Router#
Router#show ip bgp
BGP table version is 6, local router ID is 5.5.5.5
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

   Network          Next Hop        Metric LocPrf Weight Path
* 11.1.1.0/24        132.108.10.1          0   100      0 1 i
* 1131.108.0.0        132.108.10.1          0   100      0 1 i
*>161.108.0.0         4.4.4.4               0   100      0 i
Router#

```

- A. Synchronization is disabled
- B. The next-hop address is not reachable by this router
- C. The AS edge router toward the destination set the next hop to itself
- D. The classful address .0.0.0 has no static route to NULL entry in the IP routing table

Answer: B

QUESTION 29

What is the correct CLI hierarchy when configuring an interface for OSPF in Cisco IOS XR software?

- A. interface, area, router
- B. area, interface, router
- C. router, area, interface
- D. area, router, interface

Answer: C

QUESTION 30

What is the most significant BGP attribute that is used for path selection in Cisco IOS XR Software?

- A. MED
- B. Weight

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- C. local preference
- D. router ID

Answer: B

QUESTION 31

How will the syslog report an error condition that is detected in the BGP session?

- A. %BGP-3-BADMASK
- B. %BGP-3-NOTIFICATION:
- C. %BGP-3-INSUFCHUNKS:
- D. %BGP-3-MAXPFXEXCEED:

Answer: B

QUESTION 32

These commands have been issued on all OSPF routers.

```
router ospf 1
 ispf
 exit
```

How do these commands improve the performance of OSPF?

- A. They help OSPF react faster to a local interface failure.
- B. They help OSPF converge faster in reaction to a network event.
- C. They eliminate the OSPF 30-minute LSA refresh and institute independent LSA aging
- D. They save processor and memory resources during network instability by delaying SPF recalculation.

Answer: D

QUESTION 33

To improve BGP performance in your network, you would like to withdraw routes immediately when the next hop of the route becomes unavailable instead of waiting for the scan interval to detect the problem. Which Cisco IOS software command will configure this failure?

- A. bgp inject-map
- B. bgp dampening
- C. neighbor fall-over
- D. import path selection
- E. neighbor update-source

Answer: C

QUESTION 34

Drag and Drop

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Drag the BGP attribute on the left to the box on the right in the correct order of preference. The top box on the right should be the attribute with the highest preference.

shortest AS-path	
lowest MED	
highest weight	
highest local preference	
lowest origin code	

Answer:

Drag the BGP attribute on the left to the box on the right in the correct order of preference. The top box on the right should be the attribute with the highest preference.

shortest AS-path	highest weight
lowest MED	highest local preference
highest weight	shortest AS-path
highest local preference	lowest origin code
lowest origin code	lowest MED

QUESTION 35

Refer to the exhibit. What is the expected output of route-policy "test" if the starting MED value is 12?

```
route-policy test
if med eq 12 then
  set med 42
  if med eq 42 then
    drop
  endif
endif
end-policy
```

- A. set the MED to 42 and then explicit drop the route
- B. set the MED to 42 and then pass the route
- C. drop the route due to implicit drop
- D. set the MED to 42 and then implicit drop the route

Answer: A

QUESTION 36

Which command displays all interfaces that are configured in OSPF on Cisco IOS XR Software?

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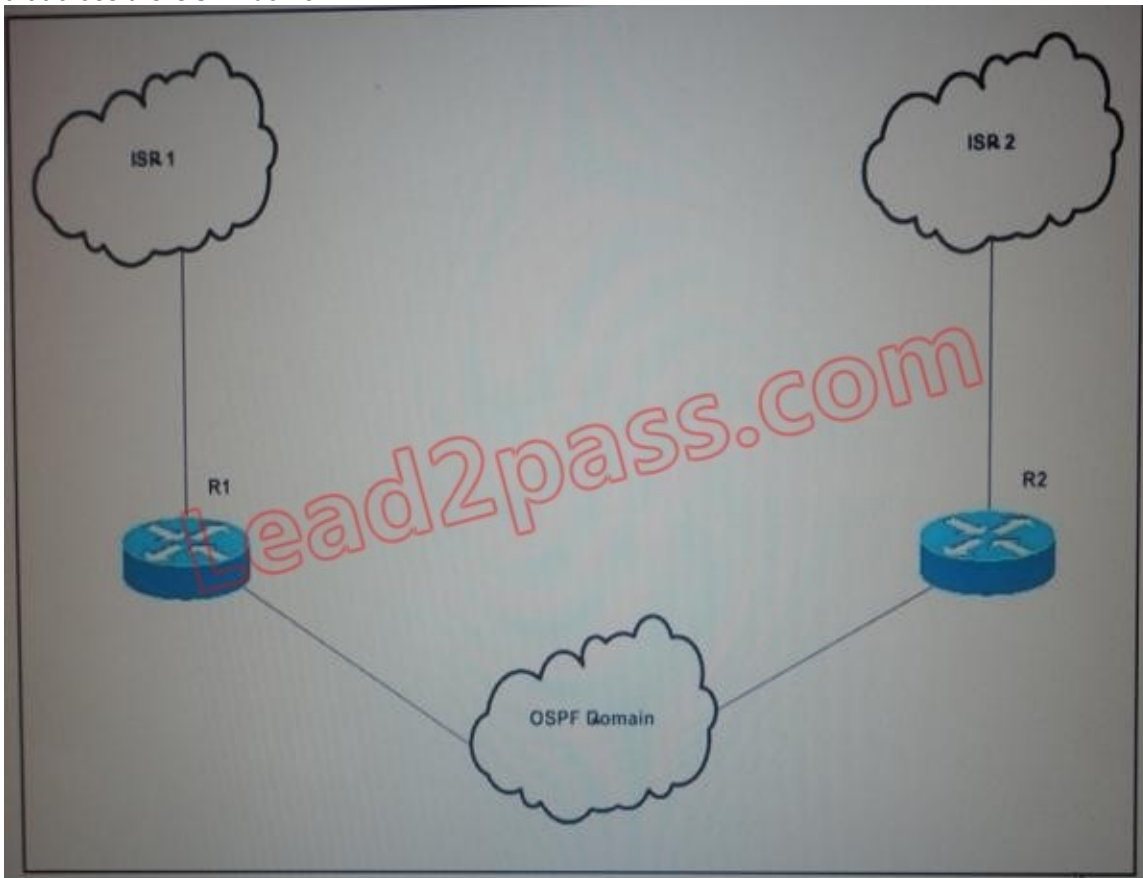
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- A. show ospf interface
- B. show interface ospf
- C. show ip ospf adj
- D. show ospf database

Answer: A

QUESTION 37

Refer to the exhibit. A client asked you to help solve a problem. This customer has two BGP routers, each connected to its upstream provider. Because of administrative restrictions, these two routers do not have an IBGP session between them, and each router redistributes certain prefixes into OSPF and vice versa. The customer would like to preserve the AS path attribute for prefixes that cross the OSPF domain.



Which route-map set option will let the customer preserve the attribute?

- A. set tag
- B. set as-path
- C. set as-path tag
- D. set extcommunity

Answer: B

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QUESTION 38

The service provider has allocated a block of IPv4 addresses for your network 172.16.1.0 with a subnet mask of 25 bits. Your company DHCP server was configured to use this block. According to your company standards, the first available IP address is 172.16.1.130. The NOC has informed you that devices that use this block have partial connectivity. They communicate with other but cannot reach out side networks.

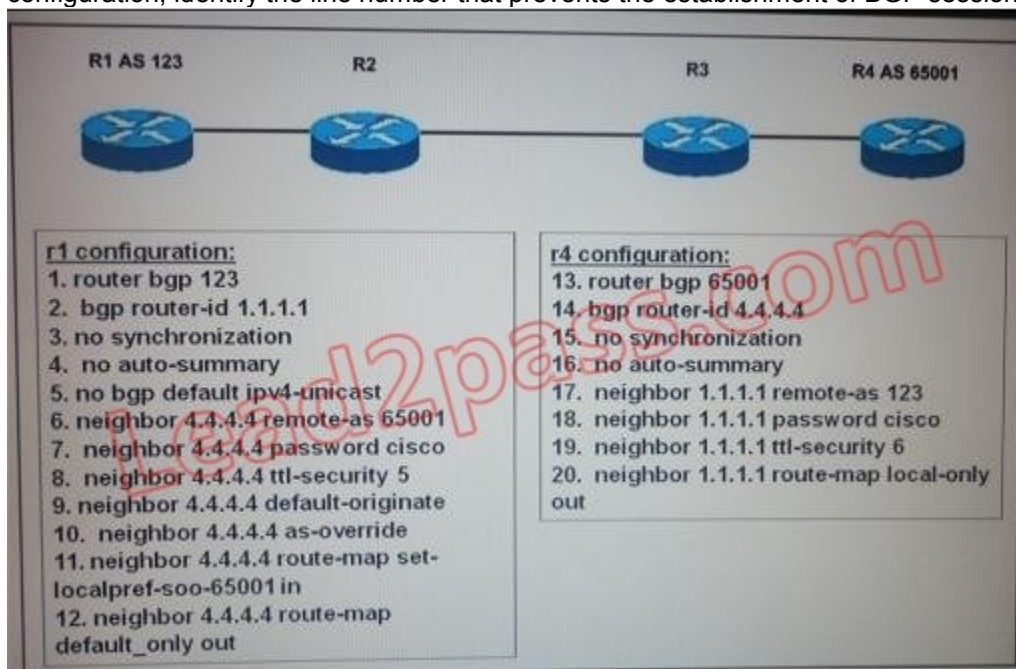
What is the reason for this behavior?

- A. The service provider, by mistake, allocated the RFC 1918 address.
- B. The IP addresses that are distributed by the DHCP server are not on the same subnet as a default gateway
- C. Because everything is configured correctly, the most likely cause is a connectivity issue with a service provider.
- D. Because everything is configured correctly, the most likely cause is a DHCP server issue

Answer: B

QUESTION 39

Refer to the exhibit. Two routers that run Cisco IOS Software cannot establish a BGP session. There is IP connectivity between them. After examining the network topology and router configuration, identify the line number that prevents the establishment of BGP session.



- A. 5
- B. 8
- C. 10
- D. 19

Answer: D

QUESTION 40

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Which protocol establishes communications over TCP port 179?

- A. IS-IS
- B. OSPF
- C. EIGRP
- D. BGP
- E. IPSec
- F. PIM

Answer: D